23rd ASEI National Convention

Improving the Quality of Life through Technology

September 8th – 9th, 2006
Sheraton Hotel
Cerritos
California



California Science Center, Los Angeles

A S E I

American Society Of Engineers of Indian Origin

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– Alan Boeckmann, Chairman and Chief Executive Officer, Fluor Corporation

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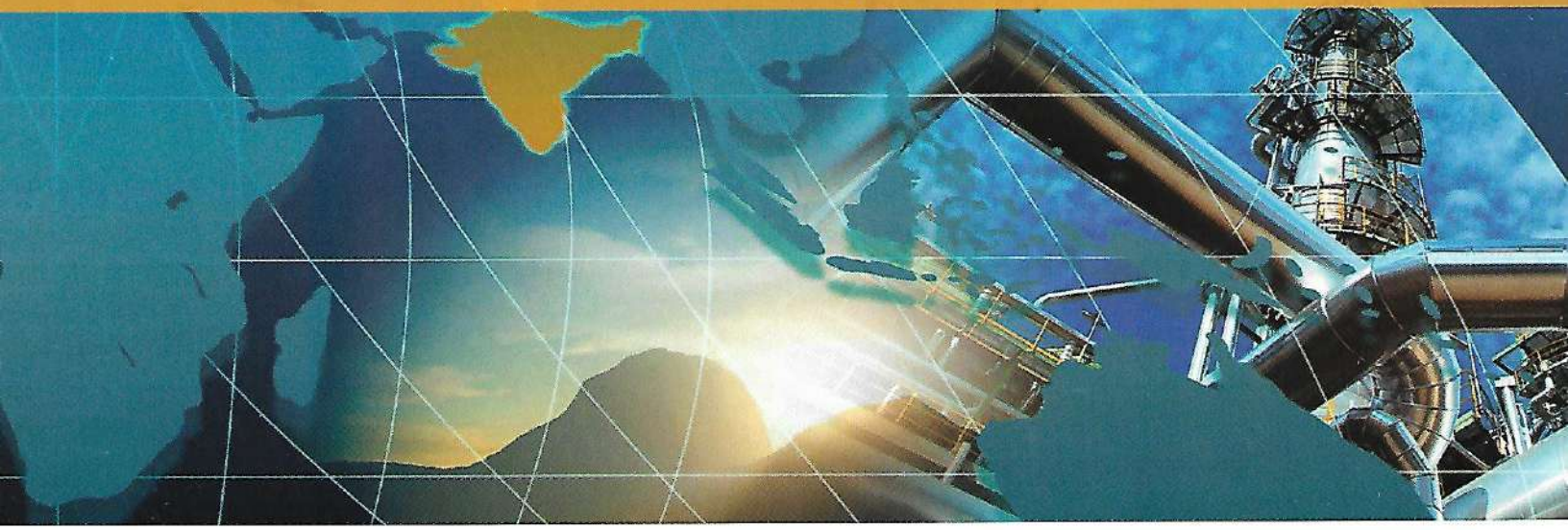

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ASEI

American Society Of Engineers of Indian Origin

OUR VISION

ASEI TO BE:

A national network of engineers of Indian origin

A forum to assist members in advancing their careers

A facilitator of technology exchange

A national professional organization with the goal of "service to its members"

ASEI ACTIVITIES

Career Enhancements

Provide career guidance and counseling

Facilitate networking

Assist in skill development through continuing education courses and technical seminars

Encourage PE registrations

Student Affairs

Providing mentoring to students

Establish Merit Scholarships

Assisting in practical training and job placement

Organizational Matters

Establish a national office

Establish an editorial board and publish quality newsletter

Increase membership

Publish membership directory

Increase awareness of ASEI

Facilitate local chapter meetings

Technology Exchange

Conduct workshops on how to exchange technology

Assist in humanitarian projects in India

Provide communication channels for retired engineers

Liaison With India

Establish working relationship with government and private organizations in India

Conventions and Affiliations

Conduct conventions throughout U.S.A.

Cooperate with other professional societies with similar goals

Local Chapter Activities

Foster Corporate diversity

Facilitate Corporate excellence recognition

ASEI

American Society Of Engineers of Indian Origin

Message from the Chairman of the ASEI National Board

It is our distinct pleasure and honor to welcome our guests, distinguished speakers, and fellow ASEI members to the 23rd ASEI National Convention. This years Convention is hosted by the Southern California (So Cal) Chapter on September 8 and 9, 2006 in the city of Cerritos, California.

As many of you a well aware, we will be celebrating the 23rd year of our existence and we certainly have made an impact, through our virtues of dedication, determination and devotion to achieve our mission and goal. This year, expanding our ASEI Corporate Excellence Recognition Program (CERP), we are embarking upon another list of highly qualified participates, which will bring us to an even higher level of excellence.

This convention is a celebration of all the milestones ASEI has been associated with, aptly the theme of this convention bringing it together "*Improving the Quality of Life through Technology*" and how appropriate that it is hosted in the land where technology is improving life.

In my humble opinion, engineers are the only professionals in society, who impact the largest number of people in their daily lives. It may be through housing, medical services, food, transportation or natural disasters, you name them. From this aspect, we all should be extremely proud of the values engineers provide to the general population.

As always, ASEI has been extremely busy this year, in organizing and coordinating various activities, including in assisting the establishment of the Southern California chapter, as we experience this year convention. We have arranged a number of technical sessions fort he visitors and guests and honored to have such distinguished guests in our presence.

In our effort to move forward, We have established 4 centers for Excellence for ASEI effective 2006 to recognize and promote core industry group Development both in the US and India.

They are
1. Center for excellence for Automotive sector: Detroit, Michigan
2. Center for Excellence for Bio-Technology: Cleveland, Ohio
3. Center For Excellence for Aeronautics and Aerospace: Los Angeles, California
4. Center for Excellence for Information Technology: Washington, DC

These centers will promote Industry specific technology innovations and cater to the needs of membership in suitable geographical regions in the US.

And so once again, I thanks all of you in attending this convention and hope to see you with at least five of your fellow eingineers at the next convention.

Jagannadham Kottha
ASEI Chairman

Congratulations to ASEI & Indian Engineers for Making India and all of us Proud!

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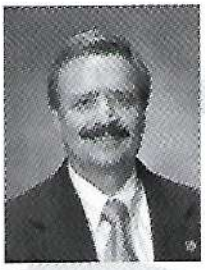


Message from the President of ASEI SoCal Chapter and the Convention Chair

It is our distinct pleasure and honor to welcome our guests, distinguished speakers, and fellow ASEI members to the 23rd ASEI National Convention. This years Convention is hosted by the Southern California (SoCal) Chapter on September 8 and 9, 2006 in the city of Cerritos, California.

Although ASEI was founded in 1983, the SoCal Chapter was founded only two years ago and we were honored to be given the opportunity to host this Convention. It has taken a lot of hard work and dedication by the Convention committee and a team of volunteers to make this convention a success.

The theme for the 23rd National Convention is "Improving the Quality of Life through Technology". As engineers we are continuously advancing the state of technology through our creativity. Our technologies have a direct impact on the quality of life whether it is in mobility, communications, bio-medical or the information sector. While most people in the developed countries have improved their life through technology, a vast number of people in the so called "third world" are still sitting on the fringes. Our challenge in the 21st century will be to make our technologies so simple and affordable that a common person in the developing countries of Africa and Asia can also improve their lives. The technical papers and the speeches being presented at this convention will address these areas.

The SoCal Chapter is the center of Excellence for Aerospace. We are honored to have the participation and support from Boeing, NASA and Northrop Grumman.
ASEI is proud of its Corporate Excellence Award and Scholarship programs. This year's nominees and winners have truly demonstrated excellence in their fields.
Finally, we are very thankful to our sponsors for their generous financial support and to ASEI National for their guidance.
Thank you for your attendance. We hope you enjoy the Convention.

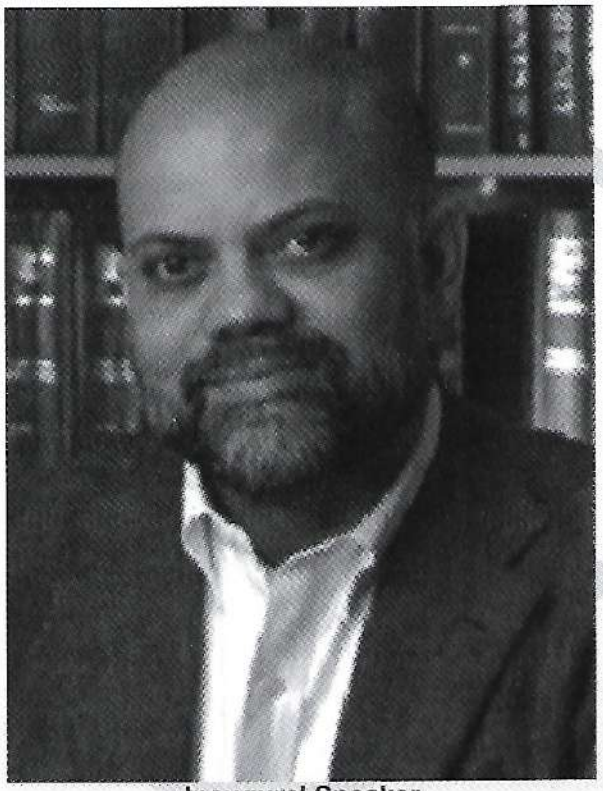
Paul S. Sikand

Sharanpal (Paul) S. Sikand
President So Cal Chapter

Shreekant Agrawal

Shreekant Agrawal
Convention Chair

PLENARY SESSION SPEAKERS



Inaugural Speaker

IQBAL QUADIR

Director,
Program in Developmental Entrepreneurship

Iqbal Quadir is Founder Director of the Program in Developmental Entrepreneurship at MIT. From 2001 to 2005, Quadir has been a fellow & lecturer at the J. F. K. School of Government at Harvard University, teaching graduate-level courses on the effect of technology in developing countries. Quadir develops economically sustainable methods for laymen to adopt technologies, thus consistently reaping their benefits. Such technological empowerment scales up organically, and contributes to strengthening democratic forces and making economies more equitable and progressive. Quadir is currently involved in projects of this nature in the areas of electricity, potable water, and market information.

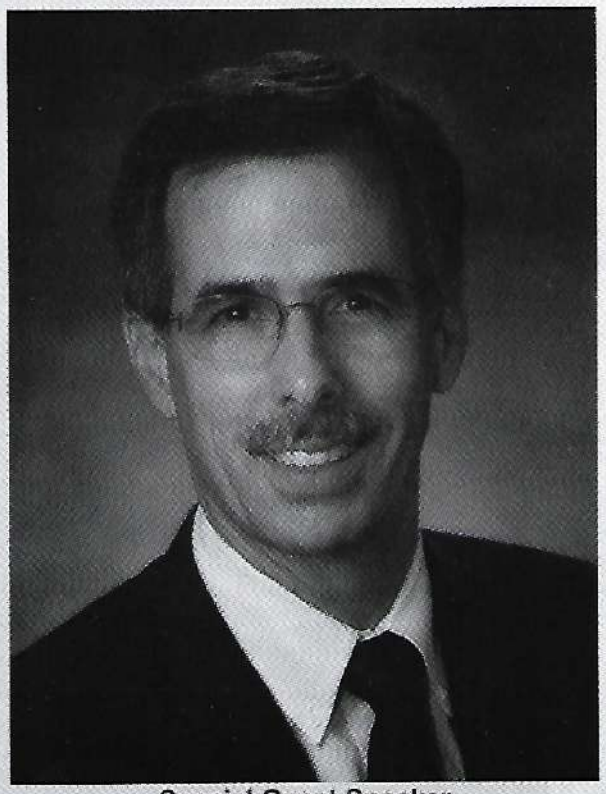
In 1999, Quadir was selected Global Leader for Tomorrow by the World Economic Forum. Quadir's work has been recognized as a successful development model by leaders and organizations around the world, appearing on television and cited in numerous articles and several books.

JOHN J. TRACY

Vice President,
Engineering & Mission Assurance
Boeing Integrated Defense Systems

John J. Tracy is Vice President of Engineering & Mission Assurance for Boeing Integrated Defense Systems. John has functional management responsibility the engineering processes, engineering tools, and the 33,000 person engineering team. John received a Ph.D. in Engineering from the University of California at Irvine and Masters and Bachelors degrees in Physics from California State University. He is a Fellow of the American Society of Mechanical Engineers, the American Institute of Aeronautics and Astronautics, and the Royal Aeronautical Society.

joined McDonnell Douglas in 1981 as a stress analyst the Huntington Beach facility. Prior to his engineering career, he was a high school teacher in Los Angeles.



Special Guest Speaker

GOVERNOR ARNOLD SCHWARZENEGGER

September 9, 2006

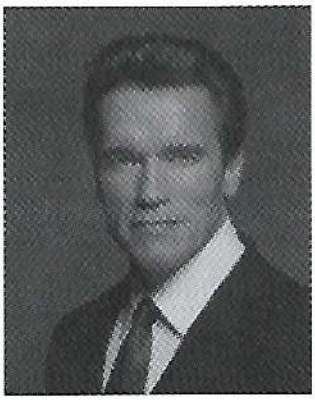
American Society of Engineers of Indian Origin

I am pleased to offer my warm greetings as you gather for your twenty-third annual national convention.

California is honored to play host to some of the nation's brightest minds. The engineering industry is built not only on tremendous intellect, but also on hope and innovation — the very qualities which define our great state.

I am proud to welcome groups that exemplify the ingenuity of Indian American citizens, and your organization constitutes a gathering of many of the most distinguished members of your community. Your labors drive the engine of progress, and I am grateful for your hard work.

On behalf of all Californians, please accept my best wishes for every future success.



Sincerely,

Arnold Schwarzenegger

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LUNCH SESSION SPEAKERS

Keynote Speaker

DINESH KESKAR

Senior Vice President - Sales,
Boeing Commercial Airplanes

Dr. Dinesh Keskar was appointed to the position of senior vice president of Sales in August 2004. Prior to being appointed to this position, Dr. Keskar was the president of Boeing India, responsible for the company's sales and marketing, airline support and industrial activities in India.

Before joining Boeing, Dr. Keskar worked as a research associate in the Flight Dynamics and Control Division at NASA Langley Research Center. Dr. Keskar is a board member for the U.S.-India Business Council. He has been an active member of Indian community organizations in the United States.

Born in 1954, in Rajkot, India, Dr. Keskar received his bachelor's degree in mechanical engineering from India. He received his master's and doctorate degrees in aerospace engineering from the University of Cincinnati. Further, he received his master's of business administration from City University in Seattle.

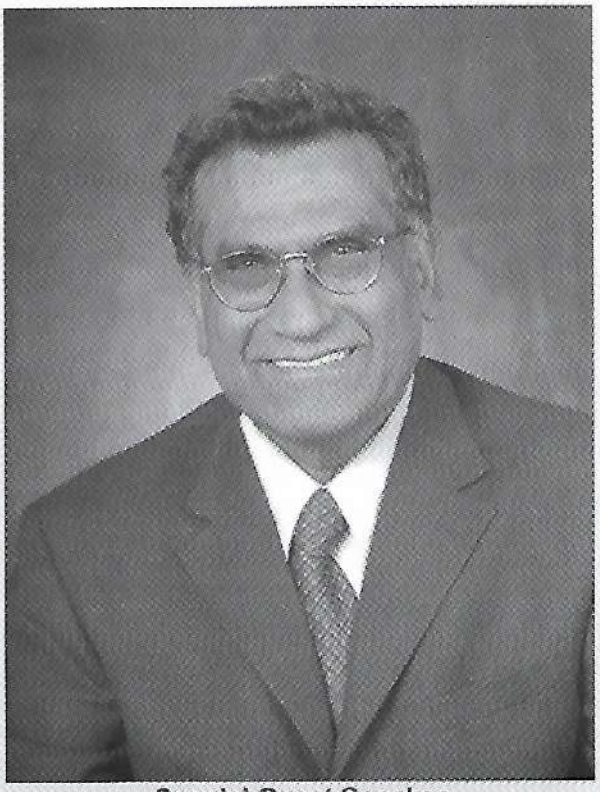
VIJAY DHIR

Dean,
UCLA Henry Samueli School of Engineering and Applied Science

Dr. Vijay Dhir, a professor of mechanical and aerospace engineering, was named Dean of UCLA's Henry Samueli School of Engineering and Applied Science in March 2003 after serving as interim dean for the previous year.

Dr. Dhir joined the UCLA faculty in 1974, and for the past 30 years he has been a consultant for numerous leading organizations. Dr. Dhir served as vice chair of the UCLA Department of Mechanical and Aerospace Engineering from 1988 to 1991, and chair from 1994 to 2000. He has worked to make UCLA's Engineering School a hub for interdisciplinary research. In the last two years, the School has won five competitive research centers from the federal government and private industry.

Dr. Dhir received his BS degree from Punjab Engineering College in Chandigarh, India, his MTech degree from the Indian Institute of Technology, Kanpur, and his Ph.D. in Mechanical Engineering from the University of Kentucky.



Special Guest Speaker

ANTONIO R. VILLARAIGOSA
MAYOR

September 9, 2006

American Society of Engineers of Indian Origin
P.O. Box 21307
Cleveland, OH 90009

Dear Friends,

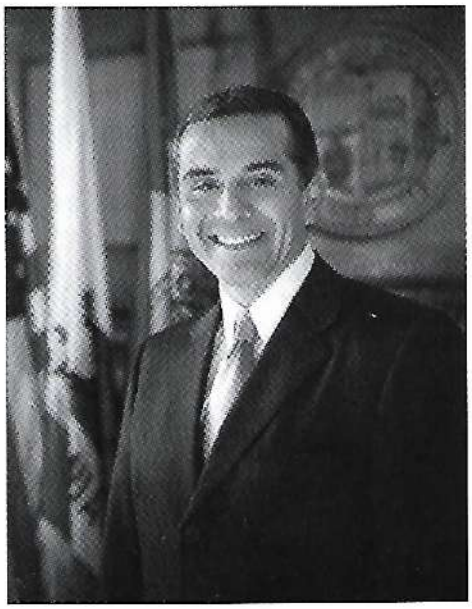
On behalf of the City of Los Angeles, it is my pleasure to welcome and congratulate the members and guests attending the 23rd Annual National Convention of the American Society of Engineers of Indian Origin (ASEI).

I applaud ASEI for their dedication to developing a nationwide network of engineers of Indian origin and providing a forum to assist members in advancing their careers. I applaud ASEI for another year of service and accomplishment.

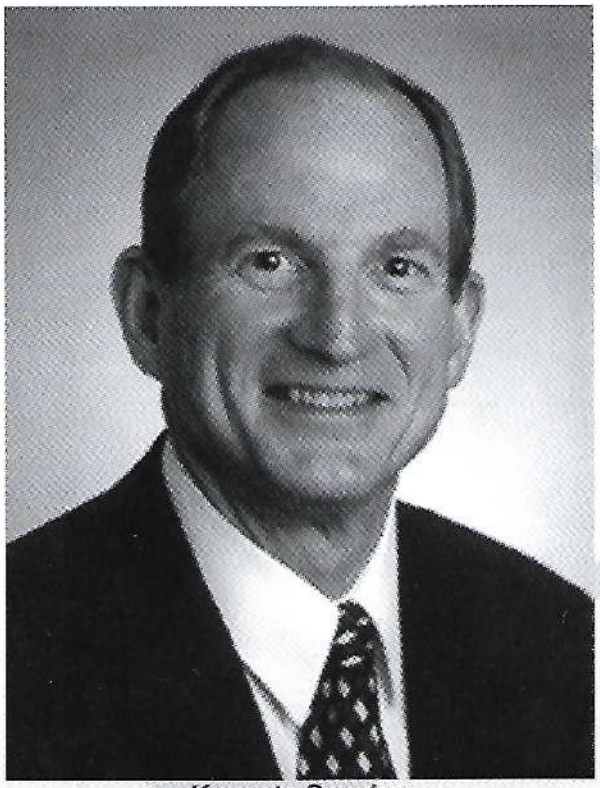
I extend my best wishes for a memorable celebration and future success.

Very truly yours,

ANTONIO R. VILLARAIGOSA
Mayor



BANQUET SPEAKERS



Keynote Speaker

RUSSELL TURNER

President,
Aerospace Consulting Services

Russell D. (Russ) Turner is the President of Aerospace Consulting Services, offering Strategic Planning and Executive Development services to the Aerospace Industry. Prior to establishing ACS in 2005, Turner was the President of the Honeywell Engines, Systems, and Services business and the Honeywell Air Transport and Regional business. Before joining Honeywell, Turner was the president and CEO of United Space Alliance (USA).

Turner previously held a series of increasingly responsible positions with Rockwell in information technology, business management, business development and program management. He was manager of Technical Systems and Computing Services, director of Engineering Systems, division director of Information Management, program director for Space Shuttle Upgrades, and vice president and program director of the Space Shuttle program for Boeing. He also participated in the formation of United Space Alliance and then served as USA's chief information officer.

RATANJIT S. SONDHE

Founder & CEO, POLY-CARB, Inc.
Internationally Renowned Stress-Free Expert

Internationally renowned, Ratanjit S. Sondhe is a speaker, author, consultant, entrepreneur, international radio and television personality, and the founder and CEO of a 30-year material science company. He credits all of his worldly success and good fortune to realizing his place in the universe and unconditionally adding value to our society.

Ratanjit emigrated from India to the United States in 1968 to complete his Ph.D. in Polymer Chemistry. He soon became an entrepreneur and created POLY-CARB, Inc., structured on a modern-style leadership paradigm in which team members are directed by the company's mission statement, operating principles, and personal values.

Having achieved worldly business success, Ratanjit has an immense desire to give back to the society that has given him so much; he has embarked on a mission to share what he has learned in order to help others reconnect for success and true joy. More information is available at www.ratanjit.com.

Special Guest Speaker

City of Cerritos

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WWW.CI.CERRITOS.CA.US

American Society of Engineers of Indian Origin

23rd Annual National Convention
September 9, 2006
Cerritos Sheraton

On behalf of the Cerritos City Council, it is a pleasure to welcome the *American Society of Engineers of Indian Origin* to the City of Cerritos! We are pleased that the 23rd Annual National Convention is being hosted at the Cerritos Sheraton on Saturday, September 9, 2006.

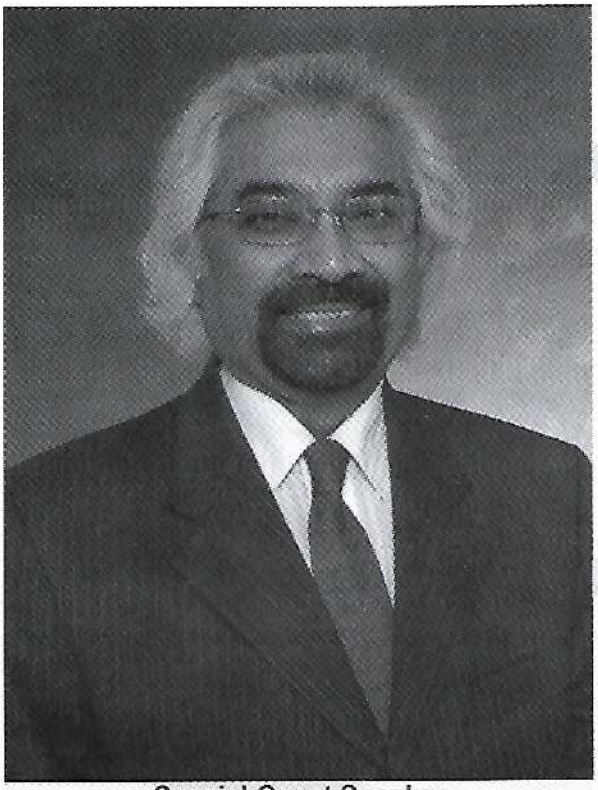
As Mayor of the City of Cerritos, I am pleased that the theme for the 23rd ASEI National Convention is "Improving Quality of Life through Technology." As an organization that strives to promote technical, professional and educational growth, ASEI is to be commended for their efforts to promote the exchange of ideas and technology between the United States and India.

Best wishes to those attending the 23rd Annual National Convention. Enjoy the convention and your time in our community.

Sincerely,

Paul W. Bowlen
MAYOR

BANQUET SPEAKERS



Special Guest Speaker

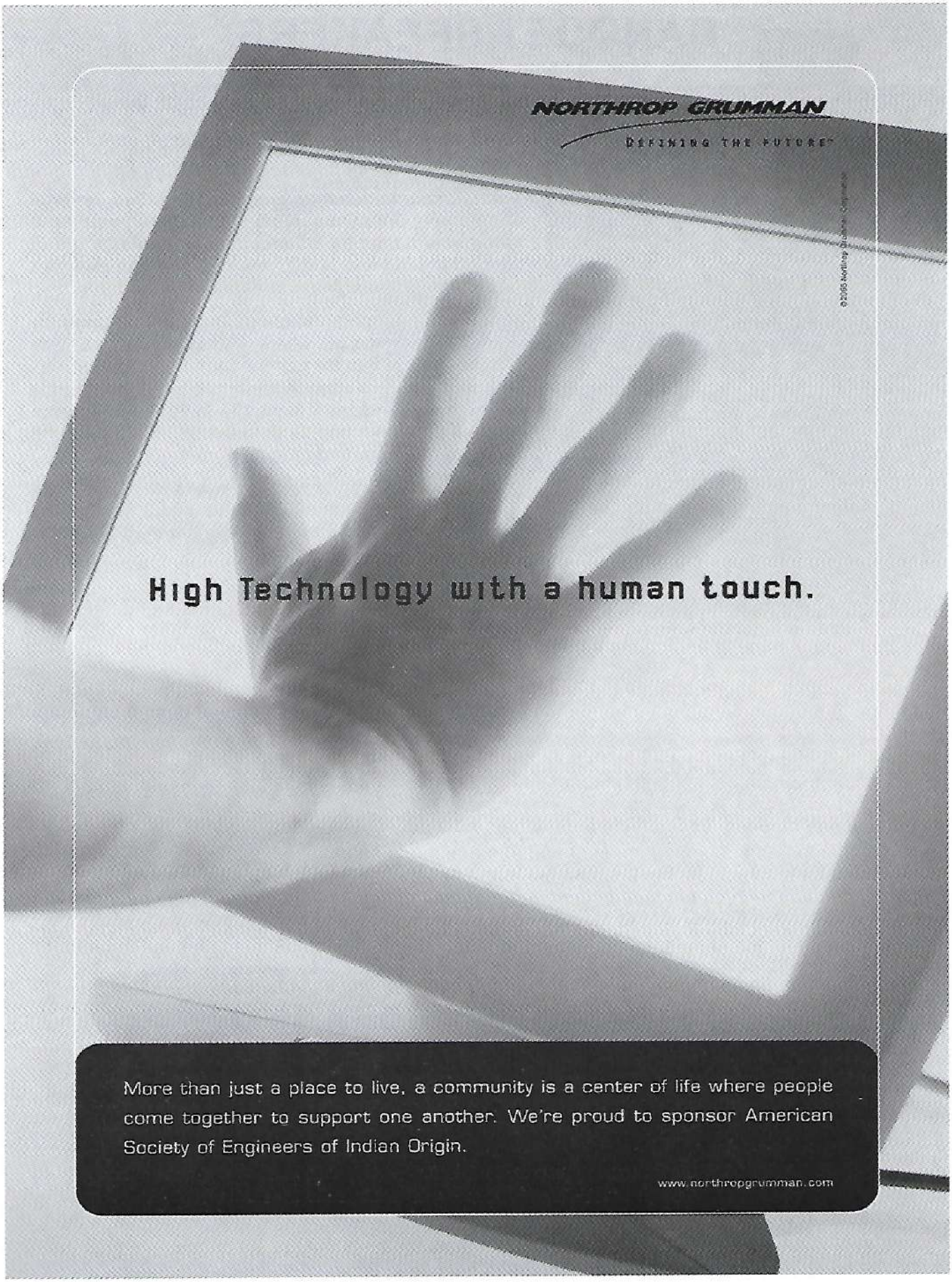
SAM PITRODA
Chairman & CEO,
World-Tel Limited

Sam Pitroda is currently chairman of India's National Knowledge Commission. He is largely considered responsible for India's communications revolution. He is the Chairman and CEO of World-Tel Limited, an International Telecommunication Union (ITU) initiative.

He founded Wescom Switching which was acquired by Rockwell International, where Pitroda became a Vice President. He is also the founder and CEO of C-SAM, Inc, and serves as a director on the board of Jet Airways. He has served as an advisor to the UN. In 2004, Indian Prime Minister Dr. Manmohan Singh recruited him to head the National Knowledge Commission.

He has a Masters degree in Physics from Maharaja Sayajirao University in Vadodara and M.S in electrical engineering from Illinois Institute of Technology in Chicago.

ASEI thanks each our speakers for taking time out of their busy schedules to share their insights and expertise at our Convention. We fully recognize that this event would not be as much of a success without the excellent presentations and stimulating discussions provided by these industry leaders.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Ravi Sharma

Mahesh Reddy

Satish Parikh

Shikha Gambhir

Not pictured: Vipin Mehta, Ved Agrawal, Surajit Khanna, Bharat Seoni & Suresh Gupta

With

BEST WISHES AND COMPLIMENTS

To

AMERICAN SOCIETY OF ENGINEERS OF INDIAN ORIGIN (ASEI)

For the

23RD NATIONAL ANNUAL CONVENTION

from

AMERICAN SOCIETY OF ENGINEERS OF INDIAN ORIGIN

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www.aseio.org

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- ISO-17025 Testing and Calibration laboratories
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- CMMI Software and IT Industry
- ANSI 748 Earned Value Management

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Please call Jag Kottha, Lead Auditor, for any information on any of the services.

ASEI

American Society Of Engineers of Indian Origin

ASEI Award Winners of 2006

ASEI Professional Excellence Award

ASEI Entrepreneur of the year Award

1. Harish Bhutani
Monaero Corporation

2. Venu Sarakki:
Sarakki Associates, Inc

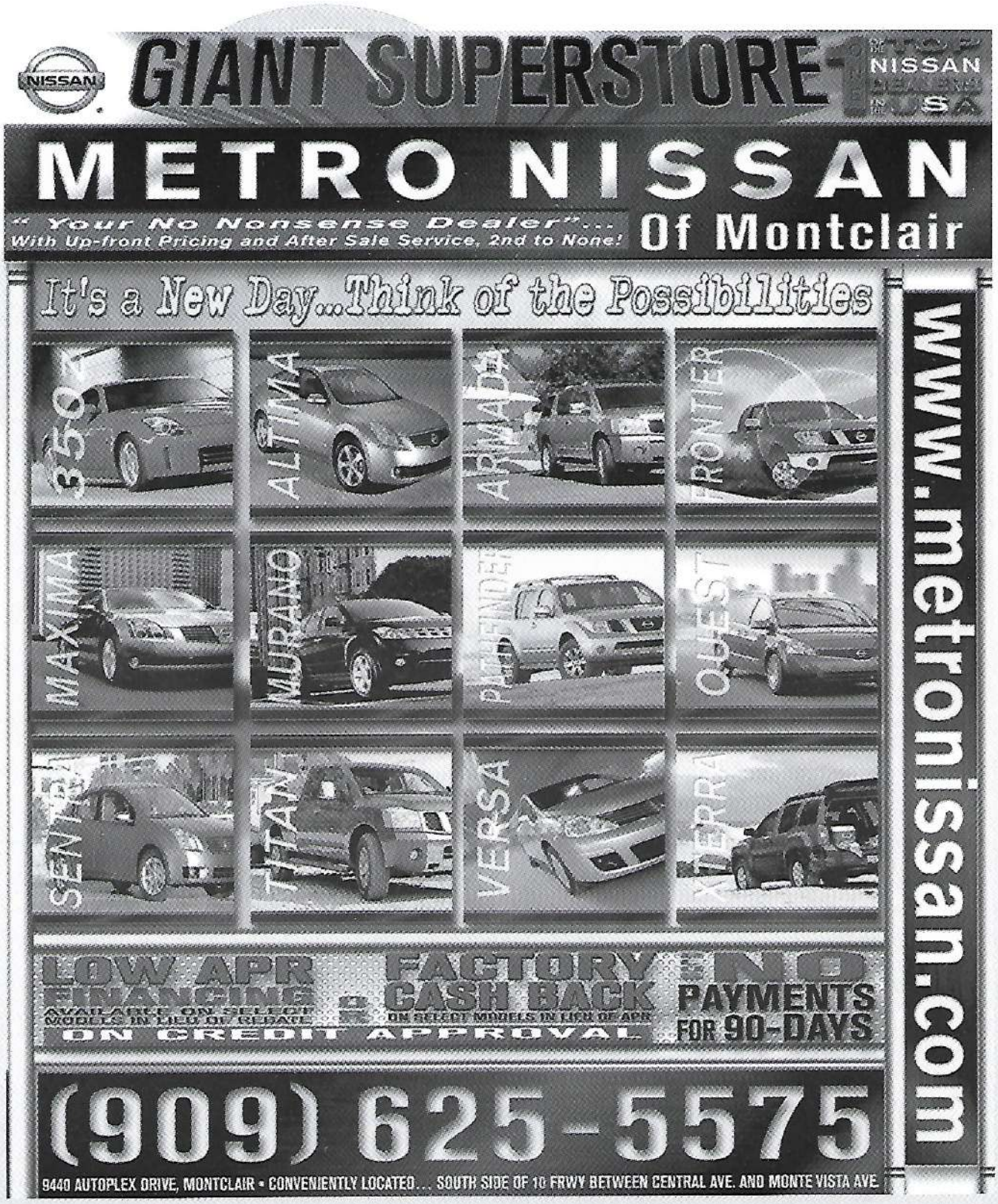
ASEI Graduate Student of the Year

Monica V. Sikand

ASEI Undergraduate Student of the Year

Supriya Bavisetty

Best Wishes to ASEI for your 23rd Annual National Convention



ASEI

American Society Of Engineers of Indian Origin

ASEI Award Committee Report

The following categories have been approved by the ASEI board to be awarded during the ASEI Annual Convention 2006.

Following is the brief description of the awards programs:

1. ASEI Professional Excellence Award

Following are the two awards that will be given this year:

1. ASEI Entrepreneur of the year Award
2. ASEI Student of the Year Award

Description

This award is presented to an engineering professional or a student of Indian origin with exceptional contribution to the cause of Engineering science and businesses.

The applicant will be judged against the following four criteria. However, the weighting factor will vary based on the specific categories of the award.

Professional Achievements

The nominee should have demonstrated significant achievements in the cutting-edge technology in the field of engineering and engineering related science and have managed and directed an organization or founded a company making noteworthy contributions in the design, manufacturing, production or service through the uses of engineering principles and applications.

Service to the Profession

The nominee is an established professional, has worked as executive member, is an active member, and has volunteered time for promoting the goals of one or more Engineering technical/ Professional societies and committees such as SAE, AIAA, and ASME etc.).

Service to the ASEI Organization

The nominee has contributed significantly to promote ASEI agenda among the engineering communities and other Indian communities through local chapters or national chapter.

Service to the Community

The nominee has been recognized as a leader for his service to one or more community organizations because of his/her dedicated service to promote Indian community cause or cause and interest to India.

About this Award

Established in 1983, this award is administered by the ASEI Awards Committee that is comprised of at least five members selected by the ASEI board. The award consists of a plaque, memento, and recognition at the ASEI Annual National Convention banquet event.

2. ASEI Service Excellence Award

Description

This is the highest recognition that the ASEI bestows upon an individual who has exhibited exemplary leadership that has benefited ASEI organization and ASEI members at large.

The recipient will have been responsible for one or more major initiatives which have resulted in notable and/or highly innovative achievements or expansions of the ASEI mission.

ASEI Mission:

"To promote growth and development of programs and initiatives that foster career and professional development for ASEI members and cultivate engineering, scientific, and technical exchanges between USA and India"

The recipient will have served in one or more responsible positions within ASEI.

Because this award has a special emphasis on Service to ASEI organization, ASEI membership and involvement in ASEI activities and organization is a prime requirement.

The award honors an individual who has a) played a key role in establishing and building the ASEI Value, Vision and Voice; b) made notable contributions to the advancement in the field of engineering; and c) given selflessly of his/her time and energy to the ASEI national and local chapters.

About this Award
Established in 2006, this award is administered by the ASEI Award Committee that is comprised of at least five members selected by the ASEI board. The award consists of a plaque, memento and a cash award of 1000 USD presented at the ASEI Annual National Convention banquet event.

3. ASEI Lifetime Achievement Award
This award is presented to an individuals who has i) been a member of ASEI for at least 15 years, ii) served and participated in various capacities in the activities of local and national chapters; and has contributed significantly to promote the vision and goals of the ASEI organization. This candidate is selected by the recommendation of the Award Committee and approval by the Chairman of the ASEI board.

4. ASEI Kalpana Chawla Award
The candidate will be judged against the following three categories:

Academics Excellence:
Candidate must have demonstrated academic achievements among his/her peers.

Technical Excellence:
The candidate must have demonstrated significant technical excellence through publications/technical papers in national and international journals and direct contribution to projects in the field of **aerospace engineering.**

Leadership Excellence:
The candidate must possess leadership quality with credentials to lead projects and execute them flawlessly. The leadership quality will be judged based on the past and present affiliation/involvement with the professional organization, community service/projects, and science and technical organization in the school as well as outside the school.

About this Award
The scholarship was instituted in 2003 in memory of the highly accomplished NASA astronaut, who was one of the 7 distinguished astronauts in the Columbia Shuttle Flight STS-107, and in recognition of her contribution in the field of aerospace engineering for the benefit of mankind. This annual scholarship is awarded to one deserving student in aerospace engineering. The scholarship carries a cash value of $3,000 USD and a plaque presented at the ASEI Annual National Convention banquet event.
The Scholarship is Sponsored by the Ford Motor Company.

Please visit www.asei.org for details and application form.

Relatives of the ASEI Scholarship and the Award committee members are not qualified.

About these Awards
Instituted in 2005 by the ASEI board, these awards are administered under the auspices of the ASEI Award Committee and in cooperation with the Corporate Selection Committee. The awards will consist of a plaque and recognition during the ASEI Annual National Convention banquet.

5. ASEI Corporate Excellence Recognition Program (CERP)
This year the following five award categories were approved by the ASEI National Board.

Corporate **Engineering Excellence** Award
Corporate **Woman Engineer** of the Year Award
Corporate **Young Engineer** of the year Award
Corporate **Outstanding Achievement** Award
Corporate **Service Excellence** Award

CERP Award General Selection Criteria

This award recognizes outstanding engineers of Indian origin who are employed in Industry, Academia or Government entities. Candidates are nominated by their managers and approved by their HR dept., with the nomination supported by another ASEI member focusing on the eligibility criteria for each category:

Engineering Excellence (Professional achievements)
Woman Engineer (Gender specific)
Young Engineer (Less than 10 years of industry experience and less than 35 years old)
Outstanding Achievement (Entrepreneurial achievement)
Service Excellence (Service Excellence)
The nomination and the supporting documents should clearly indicate the individual's capabilities against the qualifications listed below to enable the selection process.
Degreed engineer of **Indian Origin** from an accredited university.
Achievements
Innovation
Leadership
Teamwork
Integrity
Community involvement and service to Professional Societies
Leadership in professional societies such as SAE, AIAA and ASME and local affiliates of engineering society activities

General

The ASEI CERP nominees, ASEI Scholarship awards, and ASEI lifetime Achievement Award will be recognized during the Luncheon event of the ASEI National Convention. The ASEI Awards, ASEI CERP winners and the Kalpana Chawla Award winner will be recognized during the Evening Banquet event of the ASEI National Convention.
Application deadline for all the above categories is July 30, 2006.
Selection and announcement of all the ASEI award winners will be completed by August 15, 2006.
Please visit http://www.asei.org/ for details and application form.

Best Wishes to ASEI for your 23rd Annual National Convention

ASEI
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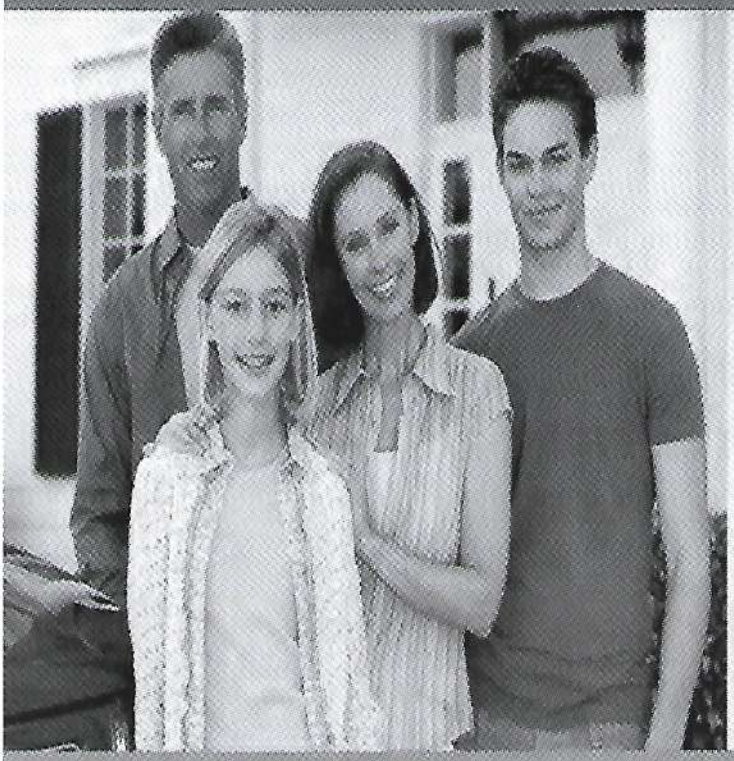

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ASEI Technical Program

Improving the Quality of Life through Technology

Long Beach
(ASEI Meeting Room)

Buena Park
(Mind and Body -AM)
(Mind and Body - PM)

ASEI Executive Board Room

Anaheim
(Automotive Excellence - AM)
(Infrastructure Excellence - PM)

Los Angeles
(Aerospace Excellence -AM)
(Emerging Technology Excellence -PM)

Men

Women

5 4 3 2 1

6 7 8 9 10

Registration

Registration

Cerritos Ballroom

Screen

Friday Stage Size 16'x18'

Saturday
(TBD)

Screen

Key

1. NASA
2. American Sona Mort
2. Midcom Corporation
3. General Electric
4. Corona Engineering
5. Financial Partners
6. Crestbest Quality
7. Northrop Grumman
8. Fluor
9. NASA
10 Boeing Company

ASEI Socal - National Convention 2006

Time	Friday, September 08, 2006	Saturday, September 09, 2006
7:00 AM		7:00 Continental Breakfast
7:30 AM		
8:00 AM		8:00 Welcome Address
8:30 AM		8:15 Keynote Speaker **Iqbal Quadir**
9:00 AM		8:45 Special Guest Speaker **John Tracy**
9:30 AM		9:10 - 9:40 **NASA Presentations**
10:00 AM		**Break**
10:30 AM		10:00-12:00 **Track # 1 Aerospace Excellence** / 10:00-12:00 **Track # 2 Automotive Excellence** / 9:30-12:00 **Track # 3 Mind and Body**
11:00 AM		
11:30 AM		
12:00 PM		12:00 Lunch
12:30 PM		12:30 Keynote Speaker **Dinesh Keshkar**
1:00 PM		1:00 Special Guest Speaker **Vijay Dhir**
1:30 PM		1:30 - 2:15 **CERP Awards**
2:00 PM		**Break**
2:30 PM		2:30-4:30 **Track # 4 Emerging Technology Excellence** / 2:30-4:30 **Track # 5 Infrastructure Excellence** / 2:30-4:30 **Track # 6 Mind and Body** / 2:30-4:30 **Track # 7 Outer Space Excellence**
3:00 PM		
3:30 PM		
4:00 PM	4:00 - 7:00 **Registration & Information**	**Break**
4:30 PM		
5:00 PM		
5:30 PM		
6:00 PM	6:00 **Social Hour**	6:00 **Social Hour**
6:30 PM		
7:00 PM	**Social Hour**	7:00 **Welcome Address & State of ASEI**
7:30 PM	7:45 **Welcome Address - Paul Sikand**	7:30 - 8:00 Keynote Speaker **- Russ Turner**
8:00 PM	8:00 **Cultural Program**	8:00 Dinner
8:30 PM		8:30 Special Guest Speaker **Ratanjit Sondhe**
9:00 PM		8:45 Special Guest **Sam Pitroda**
9:30 PM		9:15 - 10:00 **ASEI Scholorships & CERP Awards**
10:00 PM	**Have a Good Night**	10:00 - 10:10 **Vote of Thanks**
10:30 PM		10:10 - 11:30 **DJ Music & Dance**
11:00 PM		

7:00 - 8:00 **Registration & Information**

Entertainment Program

Legends	
	Sheraton Ballroom Foyer
	Cerritos Ballroom
	Los Angeles Room
	Anaheim Room
	Buena Park Room
	Long Beach Room

Technical Track Details

Technical Program Chair: Jayant Patel

Saturday, September 09, 2006

Track # 1 — Aerospace Excellence

Location	Los Angeles Room
Chair	Vipul Patel
Co-Chair	Peter Iyer
Student	Anubhav Garg

Details		
10:00 AM	**Sam Nayani**	How Jetliners Fly & How Safe is Flying?
10:30 AM	**Haisam Osman**	Active Noise & Vibration Control at Low Frequencies for Aerospace Vehicle
11:00 AM	**Albert Moussa**	Safer Skies through Fire and Explosion Protection
11:30 AM	**Sham Hariram**	Aircraft Fire Protection

Track # 2 — Automotive Excellence

Location	Anaheim Room
Chair	Aaron Ghumman
Co-Chair	Das Naryandas
Student	Chintan Amin

Details		
10:00 AM	**Ranendra K. Bose**	Anti-Air Pollution & Energy Conservation System for Automobile Using Leaded or Unleaded Gasoline, Diesel or Alternate Fuel
10:30 AM	**Ravi Rout**	Role of Advanced Indoor Simulation in the Automotive Product Creation Process
11:00 AM	**Hari B. Bindal**	Biodiesel: An Alternative Fuel
11:30 AM	**A. Namjoshi**	Noryl Thermoplastic Resins for Aircraft Applications

Track # 3 — Mind and Body

Location	Buena Park Room
Chair	Parmi Venkatacha
Co-Chair	Monika Sikand and Sam Nayani
Student	Radhika Patel & Sasha Aggarwal

Details		
10:00 AM	**Bhupendra Sonaji**	Yoga & Meditation
10:30 AM	**Geeta Sikand**	Health, Cholesterol and Nutrition
11:15 AM	**Ravi Jandhyala**	Being Indian: A set up for heart attack?

Track # 4 — Emerging Technology Excellence

Location	Los Angeles Room
Chair	Rajiv Doshi
Co-Chair	S. M. Shahed
Student	Amit Nanda

Details		
2:30 PM	**Monika Sikand**	Photonic Crystals Based on DNA Lattice
3:00 PM	**John Mason**	Removal of Arsenic from Household Drinking Water
3:30 PM	**M. Ushinsky**	Surface Plasmons, Ballistic Conductivity and Heat Generation in Clustered Nanocoatings
4:00 PM	**R Rao**	Advances in Digital Imaging Surgical Technologies and Archival Methodologies
4:30 PM (stand-by)	**Shankar Rachakonda**	An Enterprise Architecture based Approach to IT Transformation

Track # 5 — Infrastructure Excellence

Location	Anaheim Room
Chair	Ravi Rout
Co-Chair	Abdulghani Shaikh & Ashok Iyer
Student	Akanksha Garg

Details		
2:30 PM	**Venu Sarakki**	Enhancing Mobility and Border Security through Intelligent Transportation Systems
3:00 PM	**Ashok Kumar, Abhilash Vijayan, C. Varadarajan**	Development Of a Statewide Approach For Pollution Prevention Assessments For Pollution Prevention Assessments Small & Medium Size Industries
3:30 PM	**Sivanandi Rajadurai**	Integrated Wire Mesh Substrate fro Oxidation & Filtration of Particles
4:00 PM	**Venkat Tadanki**	Is There a Recipe for Successful Entrepreneurship
4:30 PM (stand-by)	**Ray Gehani**	A New Center of Excellence for Developing Engineer-Leaders for the 21st Century I

Track # 6 — Mind and Body

Location	Buena Park Room
Chair	Parmi Venkatacha
Co-Chair	Monika Sikand and Sam Nayani
Student	Radhika Patel and Sasha Aggarwal

Details		
2:30 PM	**Vishakha Purandare**	Introduction to Siddha Samadhi Yoga - SSY
3:00 PM	**Rishi Prabhakar**	Improving the Quality of Life through Higher Consciousness
3:45 PM	**Ratanjit Sondhe**	Process of Self Healing

Track # 7 — Outer Space Excellence

Location	Long Beach Room
Chair	Nikhilesh Sheth
Co-Chair	Kiran Chowski
Student	Dinu Reddy and Nigam Chowski

Details		
2:30 PM	**Shantaram S. Pai**	Quantification of Thermal-Structural Uncertainties in Engine
3:00 PM	**Dhani R. Reddy**	An Overview of Aerospace Propulsion Research at NASA Glenn Research Center
3:30 PM	**Joseph Brady**	A Propulsion Device for Spacecraft
4:00 PM	**Ashok Iyer**	A Discrete Model of Lunar Surface Operations

Keynote and Guest Speaker

8:15 AM	Inaugural	Keynote Speaker	**Iqbal Quadir**	Improving lives through technology- Cell phones and Power Generators
8:45 AM		Special Guest Speaker	**John Tracy**	Rapid Pace of Technological Change
12:30 PM	Luncheon	Keynote Speaker	**Dinesh Keskar**	Improving the Quality of Life through Technology- the Boeing Perspective
1:00 AM		Special Guest Speaker	**Vijay Dhir**	Improving Quality of Life through Technology -Academia perspective
7:30 PM	Banquet	Keynote Speaker	**Russ Turner**	Improving the Quality of Life through Open Source Technology
8:30 PM		Special Guest Speaker	**Ratanjit Sondhe**	Realizing Your True Freedom
8:45 PM		Special Guest Speaker	**Sam Pitroda**	Improving the Quality of Life through Technology - Sam Pitroda's Career Highlights

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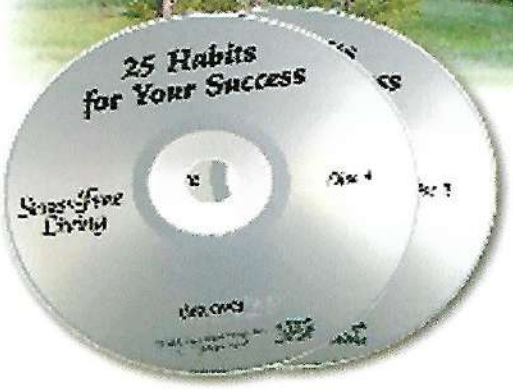

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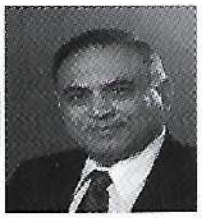
VOTE OF THANKS FROM YOUR SOCAL CHAPTER LEADERSHIP

On behalf of the *American Society of Engineers of Indian Origin, we would like to extend our sincere thanks to everyone for their hard work and dedication in making the 23rd National Annual Convention successful.*

Sharanpal (Paul) Sikand

Shreekant Agrawal



Jayant Patel

Dr. Kul Bhushan

Darsh Aggrawal

Harish Bhutani

Ravijit Kahandal

Peter Iyer

Mahesh Reddy

Venkat Parmeswaran

R Radhakrishnan

S. M. Shahed

Kiran Chokshi

Dipak Patel

Geetanjali Reuben

Vipul Patel

Ashok Iyer

Nishad Varghese

Vijay Garg
Sam Nayani
Ashok Madan
Aaron Ghuman
Anil Kashyap
Varun Aggarwal
Amit Nanda
Nick Sheth

Rajiv Doshi
Anubhav Garg
Abdulgani Sheikh
Harshad Badani
Ravi Shah
Pratyush Dave
Radhika Patel
Asha Knott

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ASEI-Kalpana Chawla Scholarship Winners

Puja Valyil

ASEI-Undergraduate Scholarship Winners

Supriya Bavisetty

Aditya Rajagopal

Roneesh Vashisht

ASEI-Graduate Category Scholarship Winners

Nishant Chandran

Joyita Dutta

Vipul Goyal

Amit Pandey

Saurabh Puri

Sangeetha Somayajula

Aditya Saraf

Jai Thomas

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Mr. Jagdish Agrawal and Mrs. Manjesh Agrawal are proud to contribute $1,000 for ASEI Student Scholarship to be awarded at its 23rd Annual National Convention in Cerritos, California on September 9th, 2006

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Technical Presenters at the 23rd ASEI National Convention, California

Abhijit Namjoshi

Noryl* Thermoplastic resin is a blend of modified Polyphenylene Ethers (PPEs) and offers significant advantages for transportation applications including low specific gravity, inherent flame retardancy and low toxicity. Noryl resins are suitable for extrusion and injection molding applications. Newer advances in Noryl Technology offer even greater reductions in smoke generation while still satisfying flame and toxicity requirements for aerospace applications, making Noryl resins ideally suited for these markets.

* Noryl is a trademark of the General Electric Company.

Ashok Iyer

In connection with the NASA exploration activities aimed at a return of humans to the Moon, Boeing has initiated internal studies and analyses. Separated into three distinct phases, the studies are undertaken to gain a better understanding of the technologies, systems and operations required to make NASA's proposed plans feasible. In its bid to send astronauts back to the lunar surface, NASA faces a design problem of a scale and complexity of virtually unmatched proportions. The original Apollo architecture has inspired the lunar exploration approach most recently defined by NASA, and historic flights serve as engineering analogies for the planned transportation segments of the mission. The implementation of a lunar base as envisioned in subsequent phases, however, represents a novel challenge that requires the development and application of innovative solutions, such as in-situ resource utilization (ISRU), which will be used to support the long term stay and productive work of exploration crews.

Ashok Kumar

Pollution Prevention (P2) has been established both a profitable and an environmentally friendly approach for the corporations by the many projects carried out by industry and regulatory bodies. This paper presents a three-prong approach for a successful implementation of the "Pollution Prevention Pays" theme for small and medium size companies. The elements of this approach include training, conducting the assessments and development of P2 tools. Ohio State Environmental Network is involved in this coordinated effort of the Government, Industry, and Academia. The Ohio Edison Centers and the University of Toledo as a part of the Pollution Prevention Incentives for States (PPIS) Grant awarded by the U.S. Environmental Protection Agency (USEPA) conducted the P2 activities discussed in this paper

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Technical Presenters at the 23rd ASEI National Convention, California

Bhupendra S. Soneji

Yoga and meditation are means to promote yogic teaching and to help people discover the beauty of yoga and the joy of practicing inner silence. In Sanskrit, *Sarathi* means a charioteer, a guide, a helper, or living life with the Divine. The purpose of this movement is to be aware that the Divine is guiding our life and He is our greatest helper.

"Yoga is a science of uncovering one's enormous unknown dynamic potential," says Soneji. "Yoga is the tool to reveal this happiness from within. Yoga is not a science for tomorrow or the next life, but it helps one to evolve in the direction of consciousness today and now, no matter how old a person is or in what physical, mental, emotional or spiritual stage he is. Once having experienced the beauty of yoga, no one can live a moment without it."

No Picture available

Joseph M. Brady

A method that exploits certain properties of a recirculating gas has been investigated as a means of achieving a sustained accelerative vector force without either the expulsion of mass from or a reaction against an external mass by the accelerated body. A theory of operation is presented that defines the capabilities and limitations of the method, and which has resulted in functioning prototypes. The prototype devices require only a source of electric power and a means of cooling to achieve an internally generated, externally measurable accelerative vector force that is sustained for as long as power is supplied to the device.

No Picture available

M. Ushinsky

This presentation describes the effects of surface plasmons, ballistic conductivity, and heat generation in the clustered metal nanocoatings. The applications include the microwave (MW) assisted adhesive bonding, soldering, and diffusion welding of dielectric and thermally insulating glass, ceramic or crystal components used in fiber-optics, laser diodes, and semiconductors. The adjoining interface of these components is coated with the 10-50nm nano-films of the electrically and thermally conductive alloys. The electro-magnetic energy is deposited into the clustered coating by a multi- or single-mode cavity microwave (MW) setup. The variable (from 300 MHz to 100 GHz) or fixed frequencies MW can be used. The adherent and coating materials are pre-selected, so their joint provides the deposition of energy mainly into the nano-films, solder or adhesive layer, while the deposition of the energy into the adherent glass, ceramics or crystal is minimized. The MW generates plasmonic resonance in the clustered nano-coating that induces electric currents.

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Technical Presenters at the 23rd ASEI National Convention, California

N. Albert Moussa, Ph.D., P.E

While commercial air travel is an extremely safe mode of transportation, aircraft fires and explosions have occasionally resulted in disasters. Based on real-accidents and full-scale testing, Dr. Albert Moussa will provide an overview of the main types of in-flight and post-crash fires/explosions involving the aircraft engines, cabin, fuel and cargo areas. He will describe how fires start and grow, the contributory effects of human and environmental factors and the potential threats from terrorists. He will detail how major accidents have led to stricter FAA requirements, improved practices by the industry and safer skies, albeit many years later. Examples of safety improvements include the use of a fire blocking layer in seats, fire detection and suppression systems in cargo bays and fuel tank inerting. This is a multi-media presentation illustrated with colorful slides and short video clips of real accidents and a computer model output.

Geeta Sikand, MA,RD,FADA,CDE

In the past two decades, an increase in heart disease has been noted in the immigrant Asian Indians while the western world has experienced a decrease due to the excellent primary prevention programs. Asian Indians around the world have the greatest prevalence of heart disease. This lecture will describe the role of diet in the prevention of heart disease and also explore barriers & solutions to healthy eating. Data on whether an Indo-Mediterranean diet can prevent heart disease will be presented. Educational messages to prevent heart disease in Asian Indians will be presented. Asian Indians should have access to registered dietitians who are familiar with their ethnic dietary practices. Decision makers are urged to support nutrition research and community education in Asian Indians.

Hari B. Bindal, P.E

This paper is an evaluation of biodiesel for use in the U.S. Coast Guard vessels. It includes environmental impact, regulatory and operational requirements, and any adversities of biodiesel if used in USCG fleet. The information gathered in this evaluation is mostly from the National Biodiesel Board (NBB) Information Kit (Thessen) and from proceedings of a Biodiesel Educational Workshop (Jobe), provided by NBB. Information is also gathered from Biodiesel Internet (www.biodisel.org) where a number of biodiesel studies are listed. Information from the Defense Energy Support Center (DESC) has also been used. Over 100 research papers in last 5-6 years have been published on various aspects of biodiesel. The interpretation of the information gathered is that of the authors in the best interest of the USCG fleet.

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Why AIF

- $32 million raised since its inception in 2001
- Full-time staff in India focused on project selection and monitoring
- Supported by major US foundations (capacity grants received from W.K. Kellogg and Skoll foundations)
- Leveraging funds with other US donors
- Professionally managed organization with an emphasis on transparency and secularism

Our Grants Our Programs

AIF grants support education and livelihood projects with an emphasis on primary education and women's empowerment. AIF funds best-of-breed NGO partners with innovative projects and the ability to leverage resources to scale across India and become self-sustainable. AIF has given grants to over 25 NGOs in India.

DIGITAL EQUALIZER (DE) is a joint program with Schools Online that seeks to bridge the digital and educational divide in India by providing computers, software, internet access and training to children and teachers in underprivileged schools in India. There are now over 2000 DE Centers in India.

The **SERVICE CORPS FELLOWSHIP** offers a select group of young Americans the opportunity to work with leading NGOs in India for nine months. The Fellowship builds the capacity of Indian NGOs while developing American leaders with experience in India. AIF has sponsored 100 Service Corps Fellows since 2001.

Technical Presenters at the 23rd ASEI National Convention, California

John L. Mason

A current competition calls for the design, construction, and test of a household-size unit (50 to 200 liters/day capacity) to reduce the arsenic content of drinking water from 300 micrograms/liter to less than 50 micrograms/liter. Water treatment for arsenic removal is important worldwide, especially in Bangladesh, Bengal, and parts of India, where groundwater arsenic levels are excessive. Arsenic removal can be routine for municipal water treatment systems, which can afford levels of design sophistication, process monitoring, and maintenance that are impractical for household units. This presentation describes a one-off household water-treatment unit that was built in late 2005 to enter the competition, demonstrating that a simple pour-through device can in fact reduce arsenic content to levels well below those required. Test data are presented. Disposal of the removed arsenic residue is provided for.

No Picture available

K. Venkatesh Prasad

In its first one hundred years, the automobile re-defined personal mobility, and in doing so changed the destiny of the planet and its inhabitants. At an individual level, the automobile brought direct prosperity to millions of people and indirect benefit to the lives of billions of the planet's inhabitants. Roadways changed the face of the planet, and led to the creation of suburbia and its associated comforts & conveniences.
All this, nevertheless, came at a cost, that included the loss of lives from automobile accidents, the depletion of fossil fuel, and global warming. As we watch the dawn of a new century, with the immense power of computing & communication at our hands, how might we engineer personal mobility for the twenty-first century?

Monika V Sikand

A photonic band gap material is an artificially created crystal that selectively forbids the propagation of light at specific wavelength. These materials have a dielectric configuration that varies on a length scale equal to the wavelength of the light to be forbidden. Due to their ability to alter the path of light of a specific wavelength, they offer number of applications .Photonic crystal slabs can be used as mirrors, filters & to enhance the quantum efficiency of light emitting diodes (LEDs). One of today's challenge is to design crystals which forbid a given wavelength. As the desired wavelength becomes shorter, the fabrication schemes to produce the required periodic structure becomes difficult. The fabrication of photonic band gap materials requires the ability to manipulate materials of contrasting dielectric properties on the nanoscale level. These crystals can be engineered either with the top down approach utilized in lithographic and etching techniques or the bottom up approach of self-assembly utilized in colloidal suspensions

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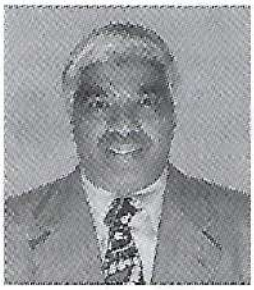

Sivanandi Rajadurai

No Particulate Matter (PM) produced in exhaust gas has a wide range of size distribution from ultra fine particles (nano-particles) to sub-micron to micron size particles. Conventional filter systems are not flexible enough to uniformly control fine and coarse particulate matter. Consequently, the filter is plugged with larger and smaller particles in every filtration site. This gives high back pressure, un-even particle distribution and non-uniform regeneration and hot spots on the filter.
Wiremesh systems with longitudinal and radial variable zones oxidize and filter larger particles in the front zone of the filter and the smaller particles in the following zones of the filter.

Dr. Naval Agarwal

The control of vibration and noise is an important issue in the design of aerospace vehicles. Airframe or fuselage vibrations, e.g., caused by slightly unbalanced engine spools or turbulent boundary layer excitation can cause structural vibration and generate high levels of noise in the cabin that can affect crew and passenger comfort. Poor communication due to high interior noise levels in a military aircraft may affect mission performance, and also may be even considered a safety concern. During liftoff of space vehicles, high levels of structural vibrations and noise can affect payload inside the vehicle. For launch vehicles, the dominant noise sources encompass low to mid frequencies, and for rotorcraft the dominant noise sources are distributed from low to high frequencies.

No Picture available

Rama Subba Reddy Gorla

Conventional engineering design methods are deterministic. The components of a machine are considered as ideal systems and parameter optimization provide single point estimates of the system response. In reality, many engineering systems are stochastic where a probability assessment of the results is required. Probabilistic engineering design analysis assumes probability distributions of design parameters, instead of mean values only. This enables the designer to design for a specific reliability and hence maximize safety, quality and cost. The approaches for incorporating probabilistic effects in design include the use of factors of safety, the use of the worst-case design and the use of probabilistic design. Utilizing the uncertainties in the estimations, deterministic engineering design uses factors of safety to assure that the nominal operational conditions does not come too close to the point where the system will fail. The approximation of minimum properties and maximum loads known as the absolute worst case gives information about this critical point.

With Best Wishes and Compliments to 23rd Annual National Convention From the ASEISoCal Life Members

Akshai Runchal
Anil Kashyap
Anubhav Garg
Ashok Madan
Bhupesh Parikh
Darsh Aggarwal
Dipak Patel
Harish Bhutani
Harshad Desai
Hitesh Bhadrecha
Jaideep Ahluwalia
Jayant Patel
K Radhakrishnan
Krishan Khurana
Kul Bhushan
Kumar Bhatia
Madhu Ambastha
Mahesh Reddy
Parimar Shah
Peter Iyer
Ram Gudipati
Rohit Sheth
Sharanpal (Paul) Sikand
Shreekant Agrawal
Sunil Gaur
Surinder Manaktala
Syed Shahed
Venu Sarakki
Vipul Patel

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Technical Presenters at the 23rd ASEI National Convention, California

No Picture available

Ramgopal Rao

Direct visualization of a patient's anatomy (or surgical field) for diagnosis and surgery is an important component of medicine. In fields such as ophthalmology, ENT and neurology, where microstructures of anatomy are examined and operated on, large investments are made in the instrumentation that provides a high quality three-dimensional view with magnification and illumination. The current technology employed in devices such as surgical microscopes, slit lamps and endoscopes requires binocular optics for obtaining three-dimensional views, thus nearly doubling the size and cost of the instrumentation. Further, these technologies have several limitations of functionality in terms of ergonomics, flexibility, archival storage and image quality.

Ranendra K Bose

This patented System is based on a high-speed, Centrifugal Separation of the lighter pollutant but combustible gases in the automobile exhaust gas stream, such as Carbon Monoxide (CO) and the Hydrocarbons (HC) from the heavier, non-combustible gases: Carbon Dioxide (CO2) which is released to the atmosphere. Whereas, the lighter pollutant and combustible gases (CO + HC) & the Carbon PM are recycled back to the auto-engine for re-combustion.
This recycling significantly reduces the pollutant emissions. Also, the heat energy absorbed by the engine from burning these pollutants gases, improves it's fuel economy by 15%; thereby reduces its CO2 i.e. (GHG) emissions

Dr. D. R. Reddy

NASA Glenn Research center is the recognized leader in aerospace propulsion research, advanced technology development and revolutionary system concepts committed to meeting the increasing demand for low noise, low emission, high performance, and light weight propulsion systems for affordable and safe aviation and space transportation needs. The technologies span a broad range of areas including air breathing, as well as rocket propulsion systems, for commercial and military aerospace applications and for space launch, as well as in-space propulsion applications. The scope of work includes fundamentals, components, processes, and system interactions. Technologies developed use both experimental and analytical approaches. The presentation provides an overview of the current research and technology development activities at NASA Glenn Research Center .

ASEI

CORPORATE EXCELLENCE RECOGNITION PROGRAM (CERP)

Award Winners 2006

Dr. Kumar G. Bhatia: Boeing
Engineering Excellence

Dr. Anita Sengupta: NASA
Woman Engineer of the Year

Dr. Shantaram S. Pai NASA
Service Excellence

Priya Kambhampati: Flour Corp
Young Engineer

Dr. Dinesh Keskar: Boeing
Outstanding Achievement

Technical Presenters at the 23rd ASEI National Convention, California

Ravi. K. Rout

With the increasing demand for reducing the product development cycle by the automotive manufacturer, it is becoming extremely important to reduce the product verification process time significantly. In the past most of the product validation process were conducted in the real world environment either on road or on a simulated track called proving ground. However, in either situation, one has to depend on the Mother Nature to provide the desired environmental conditions such as the temperature, humidity and wind condition to prove out the vehicle attribute performances. This method of product development is unreliable and presents significant risk for the OEMs to meet the product development target time line.

Sham Hariram

Often times fire protection is not given the relevance it deserves during the initial design of an airplane, or is considered late in the design that it becomes difficult or costly to implement. Airplane fire protection demands a very high level of reliability. In flight there is no escape from a fire and with an abundance of fuel and ignition sources, the threat of a fire onboard an airplane is ever present. This paper addresses the implementation of fire protection in the design of the airplane.
Prevention of a fire is the best method of fire protection, for it is best to prevent a fire than to have to deal with a fire in flight, but dealing with a fire in flight may become inevitable at one point or another. This is why fire protection methods such as passive methods and active methods are addressed.

Sam Nayani

How jetliners fly ? How safe is flying ? What are the main components in the airplane that provide forces necessary to keep the airplane flying. Airlines spend millions of dollars to provide safe airplane for flying public. Several regulatory bodies (FAA, EASA, JAA, DGAC etc.) oversee the safety of an airplane. Airlines, Aircraft manufacturers use flight simulators to simulate emergency failure conditions. Airline pilots, test pilots practice crew responses to the unusual emergency conditions in the flight simulator.

With Best Wishes and Compliments to 23rd Annual National Convention From the ASEISoCal Members

Vishal Agrawal
Arvind Ahluwalia
Harshad Badani
Madan Bansal
Satyanarayana Bavisetty
Harish Bhardwaj
Cynthia Cavalli
Bala Chidambaram
Kiran Choksi
Tilak Chopra
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Sunil Gera
Dinanath Gharmalkar
Aaron Ghumman
Rajinder Goel
Hans Grover
Anil Gupta
Rajnish Gupta
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Sham Hariram
Ashok Iyer
Kamlesh Jagad
Anand Jagani
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A. Jha
Raj Kadakia
Ravijit Kahandal
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Vinod Kashyap

Viplove Kathuria
Lal Kesarwani
A Khan
Abdul Khan
Ajay Khetani
Asha Knott
Lavinder Lidder
Dhanil Marfatia
Gopal Mathur
Raghu Mathur
Kartik Metha
Arvind Midha
Padamn Nagenthiram
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Ravi Nori
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Avtar Thakkar
Jai Paul Thakur
Vijay Trehan
Anil Trivedi
Harry Trivedi
Raman Menon Unnikrishnan
Hark Vasa
Jaimeen Vora
Kanu Vyas

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Venu Sarakki

Every day, 900,000 people cross US-Mexico border along the 25 ports of entry mostly by automobiles and to a lesser extent on foot. The average border waiting time for the northbound traffic entering United States varies from 90 minutes to 2 hours depending on time of day, day of the week and color of the threat alert level issued by Department of Homeland Security (DHS). Processing hundreds of thousands of visitors each day is a daunting task for the thousands of Customs and Border Protection (CBP) inspectors.

Enter Intelligent Transportation Systems (ITS), a branch of advanced traffic and transportation engineering, which uses state-of-the-art, proven computer and communication technologies to improve mobility, traffic congestion, air quality and thus quality of life. Secure Electronic Network for Traveler Rapid Inspection (SENTRI) is one such program that uses ITS technologies to improve mobility and security at the busiest border crossings along the southern border.

Vishakha

The fundamental knowledge of life - Our ancient Wizards had formulated a special training called Brahmopadesham, which dynamically alters one's outlook towards life and brings tremendous change in physical, mental, emotional, and spiritual state of individuals.

Rishi Prabhakar – The engineer, manager turned modern day Guru who developed this dynamic program for transforming life from problem to "Everything is OK" is now available in form of 'Siddha Samadhi Yoga'. This training is an extremely simple, systematic, and subtle technology. It is based on a holistic approach, which involves Pranic breathing (life energy) exercises, Samadhi Meditation, and Satvic food habits. Many chronic ailments show a remarkable signs of improvement in just a few days of practice.

Dr. Shantaram S. Pai

A typical hot structural component within an engine such as composite combustor liner is computationally simulated and probabilistically evaluated in view of the numerous uncertainties associated with the structural, material, and thermo-mechanical load variables (primitive variables) that describe the combustor. The combustor is evaluated for local stresses. Results show that the scatter in the combined stress near the support is significantly dependent upon the uncertainties in the through thickness thermal gradients, the liner material thickness, the coefficient of thermal expansion, and the axial and both the axial and shear moduli

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No Picture available

Shuvo Roy

The application of MEMS or microsystems technology to biomedical problems (bioMEMS) has attracted great attention over the last decade. This awareness in the potential of bioMEMS has resulted in a flurry of research activities, which, in turn, have culminated in some commercialization successes such as microarrays and lab-on-chip *in vitro* diagnostics. Furthermore, the feasibility of a variety of implantable bioMEMS devices for drug delivery, physiological monitoring, and tissue engineering, has been demonstrated within a research context. Unfortunately, their translation into the clinical environment has been largely limited due to technical, cultural, and economic challenges.
The talk will present the state of clinical bioMEMS today and discuss how the challenges might be overcome.

Venkat Tadanki

What markets and products make for a great entrepreneurship opportunity?
What are the attitudes/experiences that would be useful to have in an Entrepreneur?
Some cardinal rules to keep in mind for an entrepreneur to be successful

Param Poojya
Guruji Shri Rishi Prabhakarji

Through his teachings in **Siddha Samadhi Yoga – SSY** he offers an alternative to the present day stressful lifestyle. **Pranayam** (technique of regulation of breathing), **Samadhi** meditation, **simple eating habits** and valuable **life-guiding principals** are the core factors of **SSY** program. **SSY** enables one to reduce the risk of contracting and suffering from ailments like Diabetes, Asthma, Migraine, Gout, Hypertension, Spondilitis, chronic cold, cough, sinus and obesity. Doctors all over world are recommending SSY to help their patients lead a healthy lifestyle

Ravi Jandhyala
MD FACC

Cardiovascular disease is the leading cause of death and causes more deaths world wide than the next four causes combined. And Indians, among all ethnic groups have the highest incidence of coronary artery disease. The current understanding behind this will be discussed as well as what can be done to prevent this.

A S E I

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ASEI THANKS COMMITTEE MEMBERS AND SUPPORTERS

On behalf of the *American Society of Engineers of Indian Origin, and all those who helped ASEI directly and indirectly to make the 23rd Annual National Convention a great success, we thank our National Convention Committee Members, supporters and volunteers, for their time and effort.*

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Shreekant Agrawal

CONFERNECE CO-CHAIRPERON:

Harish Bhutani

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ASEI SoCal

American Society Of Engineers of Indian Origin

Membership Registration Form

Personal Information

Name: _____

Phone: _____ E-mail: _____

Street Address: _____

City: _____ State: _____ ZIP: _____

Job Title and Function

Company Name _____ Title _____

Function: _____

Years of Technical Experience: 0-1 1-5 5-10 10-20 20+

Educational Background

University: _____ Country of University: _____

Degree:: _____ Yr Grad: _____

University: _____ Country of University: _____

Degree: _____ Yr Grad: _____

Type of membership

Regular ($30/yr) Associate ($30/yr) Life ($250) Student ($10/yr)

Corporate ($250/yr) Company Name: _____

Amount enclosed for membership: $_____

Please check the committees in which you like to join to offer volunteer services for ASEI So Cal:

Membership & Public Relations Mentoring Functions

Humanitarian Projects Recognitions and Awards

Communications & Website Fund Raising Signature:

Signature _____ Date: _____

Please make your check payable to: *ASEI So Cal* Mailing Address: ASEI So Cal, PMB #105, 23411 Aliso Viejo Pkwy., Ste. K Aliso Viejo, CA 92656

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Membership Benefits Guide

Networking

ASEI offers a unique opportunity to you to make contacts and network with fellow professionals who share your interests. Networking leads to mutually beneficial opportunities and relationships.

Convention

Each year ASEI holds a nationwide annual convention. Conventions and workshops are also held locally by each chapter. Recognition is provided to outstanding people through awards.

Local Chapter Meetings

Local chapters provide members the opportunity to meet each other, network, communicate/generate new ideas, attend career development seminars, build beneficial relationships and learn from each other. Chapter meetings are geared towards the needs of the members. Periodically, plant tours, mini-conventions and development workshops are conducted. Monthly programs emphasize business/consulting topics, career development topics or immigration/interviewing/resume topics, depending on the chapter membership interests.

Committees

Committees are charged with the responsibility to accomplish specific ASEI goals which are common to all chapters. Committees can also be looked upon as the R & D arm of the chapters. Committees develop programs or workshops that can be used at the chapter level or at annual conventions. Members are encouraged to actively serve on committees.

Career Enhancement

ASEI assists each member by career planning and enhancement assistance. Two key programs are customized workshops (at local chapter meetings and at the annual convention) and mentoring programs to personally discuss career issues.

Membership Directory

The ASEI directory can help you find fellow members. Information is also available on company affiliations and expertise. The directory is updated annually. ASEI sends a free directory to all members.

Employment Directory

Refferral assistance is provided to members looking for work. Employers are encouraged to recruit ASEI members through job fairs and to meet their minority hiring goals.

Publications

ASEI plans to make available publications on relevant subjects such as career development, tech transfer and immigration to its members. These publications will be developed by ASEI committees.

Corporate Membership

Corporate membership is open to companies actively engaged in engineering, architecture and related arts and sciences. Benefits include up to $150 credit toward your first display ad in the monthly newsletter, exclusive access to a no-fee professional employment placement service, a $100 credit toward your first display ad in the annual convention brochure, discounted rates for exhibit space at annual and local conventions, and a Corporate Member listing in the membership directory.

Technology Transfer

ASEI assists Indian and U.S. companies by bringing together technology experts in the desired industry. Lists of experts, businesses and technical articles are maintained. Technology liaison is maintained with Indian organizations and with other associations in the U.S.

Trade Assistance

ASEI plans to acquire and catalog trade laws and policies. Facilitation assistance is provided to trade delegations from Indian or to U.S. companies.

Business and Consulting

This committee assists business and consulting firms in areas of mutual interest.

Student Affairs

ASEI assists students by providing scholarships, opportunities for contact with businesses (job search), in immigration matters (workshops) and other beneficial services such as resume writing, career planning and individual guidance and mentoring.

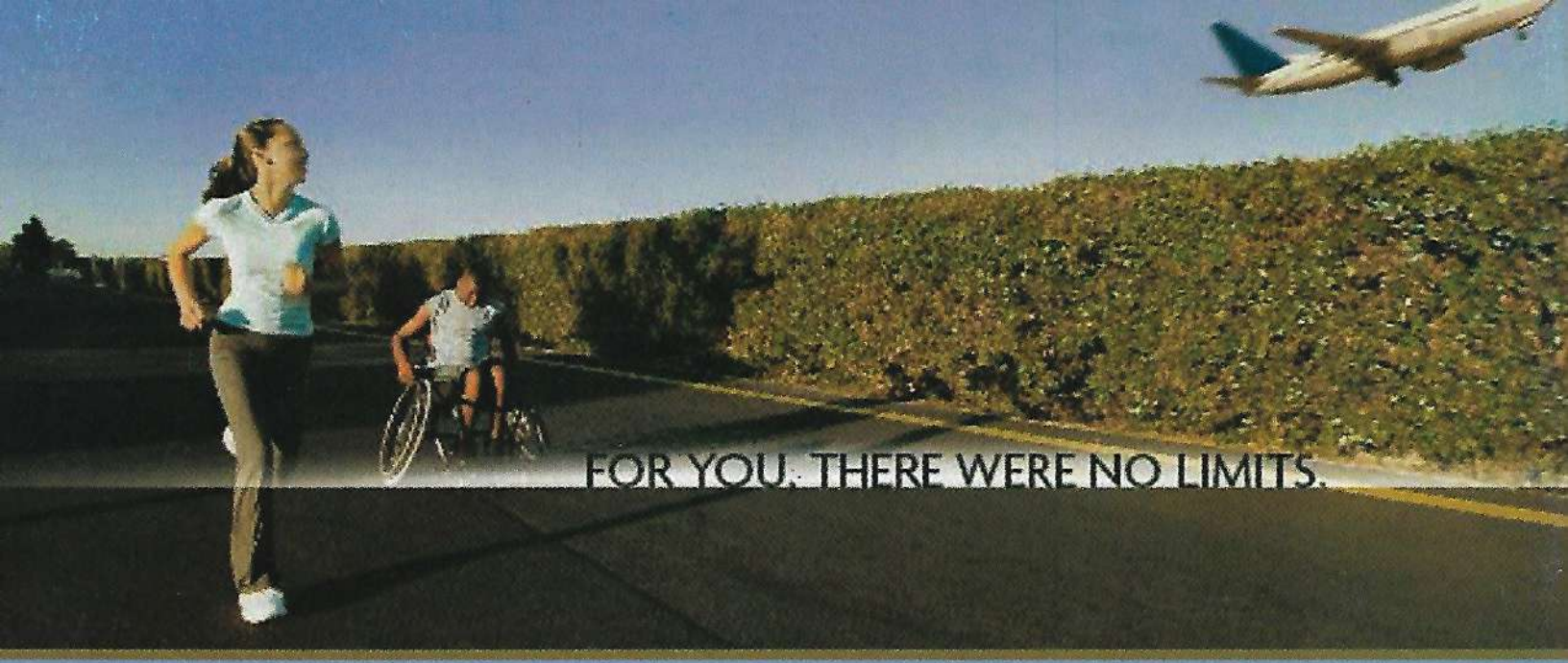
Newsletters

The newsletter is sent to all members and is intended to be informative and educational. It communicates key events and news.

Scholarships and Awards

Student scholarships are awarded based on merit and need. ASEI recognizes outstanding individuals for their professional and entrepreneurial contributions.

Best Wishes to ASEI for your 23rd Annual National Convention



FOR AS LONG AS YOU CAN REMEMBER, you never let anything stop you from doing what you wanted to do. At Boeing, we encourage our employees to pursue their dreams so their ideas have the chance to soar above the rest. The job categories below include some of the key skills we are seeking for open positions in Alabama, Arizona, California, Colorado, Florida, Kansas, Maryland, Missouri, Oklahoma, Pennsylvania, Texas, Virginia and Washington. To view detailed job descriptions and apply for these and other similar positions, please visit: boeing.com/careers

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